Subject and title index 1973

Volume 29
SPE Journal (January-July)
Plastics Engineering (August-December)

A

1. ABS

Injection Molding for Quality, P. Hubbauer, August, p. 37
Weld-line Fracture in Molded Parts, E. M. Hagerman, October, p. 67

2. Acrylics

Acrylic Monomers in PVC Platisols, G. F. Cowperthwaite, February, p. 56

3. Additives

Photo Selective Polymerization, T. F. Protzman, January, p. 14
High Bulk Density Particles: A Superior Form of HDPE, C. J. Macalusa, January, p. 25
Antistatic Tests and Agents for Plastics: Part 1, J. L. Rogers, January, p. 28
Compounding, A. A. Schoengood, February, p. 21
Antistatic Tests and Agents for Plastics: Part 2, J. L. Rogers, February, p. 52
Toughening Polystyrene with Silicone Rubber, J. C. Saam, S. E. Lindsey, A. W. Duncan and J. R. Falender, April, p. 58
Predicting PVC Extrudability from Melt Temperatures, P. L. Shah, April, p. 65
Bonding Laminates of Polyethylene and Lead with Carboxylated Polyethylene Film, P. E. Esemplare, H. L. Blostein and D. C. Herrschaft, April, p. 79
Compounding Flame Retardance into Plastics, C. E. Hoke, May, p. 36
Plastics Come Alive Brightened with Fluorescent Whiteners, G. W. Broadhurst and A. Wieber, September, p. 36
What's New in Foam, Additives, and Pipe? R. B. Seymour, September, p. 40
Is the Foam Market Up In Smoke? A. W. Smith, December, p. 51
PVC Primer, A. A. Schoengood, December, p. 25

4. Adhesion

Now: Polyolefins for Reinforced and Laminated Composites, R. A. Steinkamp, K. W. Bartz, and R. A. Van Brederode, June, p. 34

5. Aminimide

Aminimides-New Tool for the Resin Formulator, SPE Journal Staff, June, p. 21

6. Annual Technical Conference

31st Annual Technical Conference, Advance Program, March, p. 33
Annual Technical Conference Programs and Displays, April, p. 30
ANTEC Highlights, July, p. 6

7. Antistatic Properties

Antistatic Tests and Agents for Plastics: Part 1, J. L. Rogers, January, p. 28
Antistatic Tests and Agents for Plastics: Part 2, J. L. Rogers, February, p. 52

8. Automation

Theory Vs Practice in Commercial Extrusion, G. A. Kruder and J. T. Kim, March, p. 49
What Injection Molders Can Expect in the 70's, D. J. Cook, May, p. 17
How Your Plastics Order Is Handled, C. Rector, July, p. 22
Now: Remove Plastic Deposits from Extruder Parts the Modern Way, D. Biklen, July, p. 25
Why Not Automatic Deflashing of Thermosets, R. F. Zecher, July, p. 28
Computer Modeling of Coat Hanger Dies May Be Cheaper in the Long Run, I. Klein and R. Klein, July, p. 33
Molding and Tooling Costs Determined by Computer, J. E. Johnson, September, p. 28
Vacuum Pre-expansion for Polystyrene beads, P. A. Berman, September, p. 31

B

9. Biodegradation

Phthalate Esters Undergo Ready Biodegradation, V. W. Saeger and E. S. Tucker III, August, p. 46

10. Blending

Extruding Rigid PVC Dryblends, T. G. Prejean, September, p. 20

11. Blow Molding

Cooling Blow-Molded Bottles from the Inside Out, D. B. Hunkar, September, p. 25

12. Bonding

Bonding Laminates of Polyethylene and Lead with Carboxylated Polyethylene Film, P. E. Esemplare, H. L. Blostein and D. C. Herrschaft, April, p. 79

13. Bottles

Cooling Blow-Molded Bottles from the Inside Out, D. B. Hunkar, September, p. 25

C

14. Coating

Photo Selective Polymerization, T. F. Protzman, January, p. 14
Polymer Coatings for Printed Circuits, D. L. Holland, October, p. 70

15. Colography

Photo Selective Polymerization, T. F. Protzman, January, p. 14

16. Color

The Coloring of Plastics VII, Delaware Valley Section, August, p. 84

17. Composite

Now: Polyolefins for Reinforced and Laminated Composites, R. A. Steinkamp, K. W. Bartz, and R. A. Van Brederode, June, p. 34
All-Plastic Missile Fuselages on the Horizon? L. B. Keller, E. Orlowski, E. J. Morrisey and G. Holderby, December, p. 42

18. Compounding

Compounding, A. A. Schoengood, February, p. 21
Aminimides—New Tool for the Resin Formulator, SPE Journal Staff, June, p. 21
The Coloring of Plastics VII, Delaware Valley Section, August, p. 84

19. Cooling

Cooling Blow-Molded Bottles from the Inside Out, D. B. Hunkar, September, p. 25

20. Core

Expanded Cores: Structural Plastics the Easy Way, W. H. Smarook, August, p. 28

21. Corona Discharge

Antistatic Tests and Agents for Plastics: Part 1, J. L. Rogers, January, p. 28
Antistatic Tests and Agents for Plastics: Part 2, J. L. Rogers, February, p. 52

22. Corrosion

In Communications Equipment the Message is Thermosets, P. G. Kelleher and D. J. Boyle, November, p. 38

23. Crazing

Effects of Nickel on Mechanical Properties of PVC, R. P. Kusy and D. T. Turner, July, p. 56

24. Creep

Pinpointing the Hydrostatic Design Stress of HDPE Pipe, A. D. Whyman and E. Szpak, April, p. 74

D

25. Deflashing

Why Not Automatic Deflashing of Thermosets, R. F. Zecher, July, p. 28

26. Degradation

PVC Primer, A. A. Schoengood, December, p. 25

27. Design

Planning an Efficient Injection-Molding Operation, W. N. Neil and C. J. Waechter, March, p. 27
Computer Modeling of Coat Hanger Dies May Be Cheaper in the Long Run, I. Klein and R. Klein, July, p. 33
Injection Molding for Quality, P. Hubbauer, August, p. 37
A New Look at Extrusion, W. A. Mack, November, p. 31

28. Diallyl Phthalate

Curing Kinetics of Diallyl Phthalate Molding Compounds, P. E. Willard, July, p. 38

29. Differential Scanning Calorimetry

Curing Kinetics of Diallyl Phthalate Molding Compounds, P. E. Willard, July, p. 38

30. Dimensional Stability

In Communications Equipment the Message is Thermosets, P. G. Kelleher and D. J. Boyle, November, p. 38

E

31. Ecology

Flexible Vinyls and Human Safety: An Objective Analysis, Palisades Section, January, p. 53
Polyethylene Exonerated in Trial by Fire, SPE Journal Staff, March, p. 75
The Future of Plastics Disposal, B. Baum and C. H. Parker, May, p. 41
Environmental Plastics Legislation in the U.S.: An Overview, A. J. Klee, May, p. 46
Phthalate Esters Undergo Ready Biodegradation, V. W. Saeger and E. S. Tucker III, August, p. 46

32. Economics

Compounding, A. A. Schoengood, February, p. 21
Planning an Efficient Injection-Molding Operation, W. N. Neil and C. J. Waechter, March, p. 27
What Injection Molders Can Expect in the 70's, D. J. Cook, May, p. 17
Under the OSHA Gun: Two Views on Ways for Extrusion Plants to Implement Their Health and Safety Programs 1. A Consulting Engineer's Recommendations, J. P. Dyer, May, p. 26
Under the OSHA Gun: Two Views on Ways for Extrusion Plants to Implement Their Health and Safety Programs 2. A Case History, J. M. Collister, May, p. 30
How to Buy Machinery, R. S. Hallas, June, p. 25
Reclaiming Fiber-Supported PVC Scrap, C. D. Belcher, June, p. 45
Cost Saving Innovations in Insulation and Encapsulation, Philadelphia Section, July, p. 71
Making It Big with Plastic Paper, W. H. Hoge, August, p. 51
Molding and Tooling Costs Determined by Computer, J. E. Johnson, September, p. 28
Vacuum Pre-expansion for Polystyrene Beads, P. A. Berman, September, p. 31
Injection-Mold Directly from PVC Powder Blends, E. C. Szamborski, November, p. 22
All-Plastic Missile Fuselages on the Horizon? L. B. Keller, E. Orlowski, E. J. Morrisey and G. Holderby, December, p. 42

33. Electrodeposition

Preparing Plastics for Plating, D. W. Himmler and J. A. Alzapiedi, June, p. 57

34. Electroplating

Preparing Plastics for Plating, D. W. Himmler and J. A. Alzapiedi, June, p. 57
Three Ways to Plate Plastics, C. D. Storms, November, p. 35

35. Electrostatic Spray Coating

No-Solvent, No-Mess Coating Process, H. T. Azzam, March, p. 18
Powder Coating '73—Conference and Exposition in Cincinnati, SPE Journal Staff, May, p. 23
Electrostatic Powder Coatings Attract the Electrical Market, I. N. Elbling and H. E. Saunders, October, p. 60

36. Engineering

Polymer Engineering, North Sea Delta Section, February, p. 63

37. Encapsulation

Cost Saving Innovations in Insulation and Encapsulation, Philadelphia Section, July, p. 71

38. Extruders

Compounding, A. A. Schoengood, February, p. 21
Theory Vs Practice in Commercial Extrusion, G. A. Kruder and J. T. Kim, March, p. 49
How to Buy Machinery, S. Hallas, June, p. 25
Now: Remove Plastic Deposits from Extruder Parts the Modern Way, D. Biklen, July, p. 25

39. Extrusion

High Bulk Density Particles: A Superior Form of HDPE, C. J. Macalusa, January, p. 25
Theory Vs Practice in Commercial Extrusion, G. A. Kruder and J. T. Kim, March, p. 49
Predicting PVC Extrudability from Melt Temperatures, P. L. Shah, April, p. 65
Under the OSHA Gun: Two Views on Ways for Extrusion Plants to Implement Their Health and Safety Programs 1. A Consulting Engineer's Recommendations, J. P. Dyer, May, p. 26
Under the OSHA Gun: Two Views on Ways for Extrusion Plants to Implement Their Health and Safety Programs 2. A Case History, J. M. Collister, May, p. 30
Coextruding Multilayer Blown Film—Part 1, W. J. Schrenk and T. Alfrey, Jr., June, p. 38
Coextruding Multilayer Blown Film—Part 2, W. J. Schrenk and T. Alfrey, Jr., July, p. 43
Extruding Rigid PVC Dryblends, T. G. Prejean, September, p. 20
Vented Injection Barrel and Control Systems Highlight HPM Research Program, P. E. Staff, November, p. 28
A New Look at Extrusion, W. A. Mack, November, p. 31

F

40. Fabrication

Fabricating Polyterephthalate, B. W. Skelton, January, p. 18
Getting a Bead on Welding of Plastic Pipe and Fittings, W. Neubert and W. A. Mack, August, p. 40
All-Plastic Missile Fuselages on the Horizon? L. B. Keller, E. Orlowski, E. J. Morrisey and G. Holderby, December, p. 42

41. Fabrics

Compounding Flame Retardance into Plastics, C. E. Hoke, May, p. 36

42. Failure

Pinpointing the Hydrostatic Design Stress of HDPE Pipe, A. D. Whyman and E. Szpak, April, p. 74

43. Fiber

Reclaiming Fiber-Supported PVC Scrap, C. D. Belcher, June, p. 45

44. Fillers

Now: Polyolefins for Reinforced and Laminated Composites, R. A. Steinkamp, K. W. Bartz, and R. A. Van Brederode, June, p. 34
PVC Primer, A. A. Schoengood, December, p. 25

45. Film

Bonding Laminates of Polyethylene and Lead with Carboxylated Polyethylene and Lead with Carboxylated Polyethylene Film, P. E. Esemplare, H. L. Blostein and D. C. Herrschaft, April, p. 79
Coextruding Multilayer Blown Film—Part 1, W. J. Schrenk and T. Alfrey, Jr., June, p. 38
Computer Modeling of Coast Hanger Dies May Be Cheaper in the Long Run, I. Klein and R. Klein, July, p. 33
Coextruding Multilayer Blown Film—Part 2, W. J. Schrenk and T. Alfrey, Jr., July, p. 43
Gravure Printing on Vinyl Film, T. W. Lembo, November, p. 18
Heat-Sealing Polyethylene Film, G. Landvatter, November, p. 42

46. Flame Retardance

Compounding Flame Retardance into Plastics, C. E. Hoke, May, p. 36
Is the Foam Market Up In Smoke? A. W. Smith, December, p. 51

47. Flammability

Compounding Flame Retardance into Plastics, C. E. Hoke, May, p. 36
In Communications Equipment the Message is Thermosets, P. G. Kelleher and D. J. Boyle, November, p. 38

48. Flow

Flow Properties of PVC Melts, R. Khanna, July, p. 48

49. Fluorescence

Plastics Come Alive Brightened with Fluorescent Whiteners, G. W. Broadhurst and A. Wieber, September, p. 36

50. Foam

Vacuum Pre-expansion for Polystyrene Beads, P. A. Berman, September, p. 31
What's New in Foam, Additives, and Pipe? R. B. Seymour, September, p. 40
Is the Foam Market Up In Smoke? A. W. Smith, December, p. 51

51. Formulation

Aminimides—New Tool for the Resin Formulator, SPE Journal Staff, June, p. 21
Extruding Rigid PVC Dryblends, T. G. Prejean, September, p. 20
Living with FDA Regulation of Plasticizers for Vinyls, A. J. Rutkowski and R. A. Scala, October, p. 52
Injection-Mold Directly from PVC Powder Blends, E. C. Szamborski, November, p. 22

G

52. Grocery Bags

Plastic Grocery Sacks Are Here At Last, SPE Journal Staff, July, p. 21

H

53. Heat Stability

Synergistic Stabilization of PVC, R. D. Deanin, R. M. Foss, A. A. Balamotis, J. V. Garelli, and C. N. Georgacopoulas, February, p. 45
Bonding Laminates of Polyethylene and Lead with Carboxylated Polyethylene

Film, P. E. Esemplare, H. L. Blostein and D. C. Herrschaft, April, p. 79
PVC Primer, A. A. Schoengood, December, p. 25

I

54. Impact Strength

Toughening Polystyrene with Silicone Rubber, J. C. Saam, S. E. Lindsey, A. W. Duncan and J. R. Falender, April, p. 58
Now: Polyolefins for Reinforced and Laminated Composites, R. A. Steinkamp, K. W. Bartz, and R. A. Van Brederode, June, p. 34

55. Injection Molding

Injection Molding Production: A Workshop, Newark Section, January, p. 52
Planning an Efficient Injection-Molding Operation, W. N. Neil and C. J. Waechter, March, p. 27
What Injection Molders Can Expect in the 70's, D. J. Cook, May, p. 17
How to Buy Machinery, R. S. Hallas, June, p. 25
Injection Molding for Quality, P. Hubbauer, August, p. 37
Molding and Tooling Costs Determined by Computer, J. E. Johnson, September, p. 28
Weld-line Fracture in Molded Parts, E. M. Hagerman, October, p. 67
Injection-Mold Directly from PVC Powder Blends, E. C. Szamborski, November, p. 22
Vented Injection Barrel and Control Systems Highlight HPM Research Program, P. E. Staff, November, p. 28
Polypropylene—Build in Toughness When Processing, D. E. Scherpereel, December, p. 47

56. Instrumentation

The Coloring of Plastics VII, Delaware Valley Section, August, p. 84

57. Insulation

Cost Saving Innovations in Insulation and Encapsulation, Philadelphia Section, July, p. 71
In Communications Equipment the Message is Thermosets, P. G. Kelleher and D. J. Boyle, November, p. 38

K

58. Kinetics

Curing Kinetics of Diallyl Phthalate Molding Compounds, P. E. Willard, July, p. 38

L

59. Laminates

Bonding Laminates of Polyethylene and Lead with Carboxylated Polyethylene Film, P. E. Esemplare, H. L. Blostein and D. C. Herrschaft, April, p. 79
Now: Polyolefins for Reinforced and Laminated Composites, R. A. Steinkamp, K. W. Bartz, and R. A. Van Brederode, June, p. 34

M

60. Machinery

How to Buy Machinery, R. S. Hallas, June, p. 25
Vented Injection Barrel and Control Systems Highlight HPM Research Program, P. E. Staff, November, p. 28

61. Management

Train Your Foremen to Listen, A. A. Imberman, June, p. 50
Making It Big with Plastic Paper, W. H. Hoge, August, p. 51

62. Markets

RP Shipments Top 1.2 MM Pounds, SPE Journal Staff, April, p. 72
Powder Coating '73—Conference and Exposition in Cincinnati, SPE Journal Staff, May, p. 23
What's New in Foam, Additives, and Pipe? R. B. Seymour, September, p. 40
All-Plastic Missile Fuselages on the Horizon? L. B. Keller, E. Orlowski, E. J. Morrisey and G. Holderby, December, p. 42
Is the Foam Market Up In Smoke? A. W. Smith, December, p. 51

63. Mathematical Model

Some Clues to Thermoforming Transparent Sheet, J. G. Quintiere, J. L. Throne and R. C. Progelhof, January, p. 35

64. Mechanical Properties

Toughening Polystyrene with Silicone Rubber, J. C. Saam, S. E. Lindsey, A. W. Duncan and J. R. Falender, April, p. 58
Now: Polyolefins for Reinforced and Laminated Composites, R. A. Steinkamp, K. W. Bartz, and R. A. Van Brederode, June, p. 34
Effects of Nickel on Mechanical Properties of PVC, R. P. Kusy and D. T. Turner, July, p. 56
Weld-line Fracture in Molded Parts, E. M. Hagerman, October, p. 67

65. Melt

Flow Properties of PVC Melts, R. Khanna, July, p. 48

66. Melt Flow

Predicting PVC Extrudability from Melt Temperatures, P. L. Shah, April, p. 65

67. Melt Temperature

Predicting PVC Extrudability from Melt Temperatures, P. L. Shah, April, p. 65

68. Metals

Now: Polyolefins for Reinforced and Laminated Composites, R. A. Steinkamp, K. W. Bartz, and R. A. Van Brederode, June, p. 34
Effects of Nickel on Mechanical Properties of PVC, R. P. Kusy and D. T. Turner, July, p. 56
All-Plastic Missile Fuselages on the Horizon? L. B. Keller, E. Orlowski, E. J. Morrisey and G. Holderby, December, p. 42

69. Modifiers

Toughening Polystyrene with Silicone Rubber, J. C. Saam, S. E. Lindsey, A. W. Duncan and J. R. Falender, April, p. 58

70. Molding

High Bulk Density Particles: A Superior Form of HDPE, C. J. Macalusa, January, p. 25
Why Not Automatic Deflashing of Thermosets, R. F. Zecher, July, p. 28
Curing Kinetics of Diallyl Phthalate Molding Compounds, P. E. Willard, July, p. 38
Expanded Cores: Structural Plastics the Easy Way, W. H. Smarook, August, p. 28
PVC Primer, A. A. Schoengood, December, p. 25

71. Morphology

Getting a Bead on Welding of Plastic Pipe and Fittings, W. Neubert and W. A. Mack, August, p. 40
Polypropylene—Build in Toughness When Processing, D. E. Scherpereel, December, p. 47

N

72. Nylon

Expanded Cores: Structural Plastics the Easy Way, W. H. Smarook, August, p. 28

P

73. Packaging

Living with FDA Regulation of Plasticizers for Vinyls, A. J. Rutkowski and R. A. Scala, October, p. 52
Heat-Sealing Polyethylene Film, G. Landvatter, November, p. 42

74. Performance

Pinpointing the Hydrostatic Design Stress of HDPE Pipe, A. D. Whyman and E. Szpak, April, p. 74

75. Photo Image

Photo Selective Polymerization, T. F. Protzman, January, p. 14

76. Photopolymers

Photopolymers: Principles, Processes, and Materials, Mid-Hudson Section, August, p. 88

77. Physical Properties

Acrylic Monomers in PVC Plastisols, G. F. Cowperthwaite, February, p. 56
Reclaiming Fiber-Supported PVC Scrap, C. D. Belcher, June, p. 45
Flow Properties of PVC Melts, R. Khanna, July, p. 48
Expanded Cores: Structural Plastics the Easy Way, W. H. Smarook, August, p. 28
Injection-Mold Directly from PVC Powder Blends, E. C. Szamborski, November, p. 22
Heat-Sealing Polyethylene Film, G. Landvatter, November, p. 42
PVC Primer, A. A. Schoengood, December, p. 25

78. Pipe

Pinpointing the Hydrostatic Design Stress of HDPE Pipe, A. D. Whyman and E. Szpak, April, p. 74
Getting a Bead on Welding of Plastic Pipe and Fittings, W. Neubert and W. A. Mack, August, p. 40
What's New in Foam, Additives, and Pipe? R. B. Seymour, September, p. 40

79. Plasticizers

Predicting PVC Extrudability from Melt Temperatures, P. L. Shah, April, p. 65
Flow Properties of PVC Melts, R. Khanna, July, p. 48
Phthalate Esters Undergo Ready Biodegradation, V. W. Saeger and E. S. Tucker III, August, p. 46
Living with FDA Regulation of Plasticizers for Vinyls, A. J. Rutkowski and R. A. Scala, October, p. 52

PVC Primer, A. A. Schoengood, December, p. 25

80. Plastics

Antistatic Tests and Agents for Plastics: Part 1, J. L. Rogers, January, p. 28
Digest of Plastics Standards, March, p. 55
Preparing Plastics for Plating, D. W. Himmler and J. A. Alzapiedi, June, p. 57
Predicting Plastics Performance: A Forum, Philadelphia Section, August, p. 87
Plastics Come Alive Brightened with Fluorescent Whiteners, G. W. Broadhurst and A. Wieber, September, p. 36
NPE 73—Show guide and directory, October, p. 25
Electrostatic Powder Coatings Attract the Electrical Market, I. N. Elbling and H. E. Saunders, October, p. 60
Three Ways to Plate Plastics, C. D. Storms, November, p. 35

81. Plastisols

Acrylic Monomers in PVC Plastisols, G. F. Cowperthwaite, February, p. 56

82. Plating

Three Ways to Plate Plastics, C. D. Storms, November, p. 35

83. Polycarbonate

Expanded Cores: Structural Plastics the Easy Way, W. H. Smarook, August, p. 28

84. Polyethylene

High Bulk Density Particles: A Superior Form of HDPE, C. J. Macalusa, January, p. 25
Guide to UV Stabilizers, C. Savides, February, p. 38
Polyethylene Exonerated in Trial by Fire, SPE Journal Staff, March, p. 75
Pinpointing the Hydrostatic Design Stress of HDPE Pipe, A. D. Whyman and E. Szpak, April, p. 74
Bonding Laminates of Polyethylene and Lead with Carboxylated Polyethylene Film, P. E. Esemplare, H. L. Blostein and D. C. Herrschaft, April, p. 79
Plastic Grocery Sacks Are Here At Last, SPE Journal Staff, July, p. 21
Heat-Sealing Polyethylene Film, G. Landvatter, November, p. 42

85. Polymethylmethacrylate

Coextruding Multilayer Blown Film—Part 2, W. J. Schrenk and T. Alfrey, Jr., July, p. 43

86. Polyolefins

Antistatic Tests and Agents for Plastics: Part 2, J. L. Rogers, February, p. 52
Now: Polyolefins for Reinforced and Laminated Composites, R. A. Steinkamp, K. W. Bartz, and R. A. Van Brederode, June, p. 34
Making it Big with Plastic Paper, W. H. Hoge, August, p. 51

87. Polypropylene

Expanded Cores: Structural Plastics the Easy Way, W. H. Smarook, August, p. 28
Polypropylene—Build in Toughness When Processing, D. E. Scherpereel, December, p. 47

88. Polystyrene

Guide to UV Stabilizers, C. Savides, February, p. 38
Antistatic Tests and Agents for Plastics: Part 2, J. L. Rogers, February, p. 52
Toughening Polystyrene with Silicone Rubber, J. C. Saam, S. E. Lindsey, A. W. Duncan and J. R. Falender, April, p. 58
Coextruding Multilayer Blown Film—Part 2, W. J. Schrenk and T. Alfrey, Jr., July, p. 43
Vacuum Pre-expansion for Polystyrene Beads, P. A. Berman, September, p. 31

89. Polyterephthalate

Fabricating Polyterephthalate, B. W. Skelton, January, p. 18

90. Polyvinyl Chloride

Antistatic Tests and Agents for Plastics: Part 1, J. L. Rogers, January, p. 28
Compounding, A. A. Schoengood, February, p. 21
Synergistic Stabilization of PVC, R. D. Deanin, R. M. Foss, A. A. Balamotis, J. V. Garelli, and C. N. Georgcopoulas, February, p. 45
Antistatic Tests and Agents for Plastics: Part 2, J. L. Rogers, February, p. 52
Acrylic Monomers in PVC Plastisols, G. F. Cowperthwaite, February, p. 56
Predicting PVC Extrudability from Melt Temperatures, P. L. Shah, April, p. 65
Compounding Flame Retardance into Plastics, C. E. Hoke, May, p. 36
Reclaiming Fiber-Supported PVC Scrap, C. D. Belcher, June, p. 45
Flow Properties of PVC Melts, R. Khanna, July, p. 48
Effects of Nickel on Mechanical Properties of PVC, R. P. Kusy and D. T. Turner, July, p. 56
Extruding Rigid PVC Dryblends, T. G. Prejean, September, p. 20
Plastics Come Alive Brightened with Fluorescent Whiteners, G. W. Broadhurst and A. Wieber, September, p. 36
Injection-Mold Directly from PVC Powder Blends, E. C. Szamborski, November, p. 22
PVC Primer, A. A. Schoengood, December, p. 25

92. Powder Coating

No-Solvent, No-Mess Coating Process, H. T. Azzam, March, p. 18
Powder Coating '73—Conference and Exposition in Cincinnati, SPE Journal Staff, May, p. 23
Electrostatic Powder Coatings Attract the Electrical Market, I. N. Elbling and H. E. Saunders, October, p. 60

93. Pressure Dependence

Injection Molding for Quality, P. Hubbauer, August, p. 37

94. Printed Circuits

Polymer Coatings for Printed Circuits, D. L. Holland, October, p. 70

95. Printing

Gravure Printing on Vinyl Film, T. W. Lembo, November, p. 18

96. Processing

Compounding, A. A. Schoengood, February, p. 21
No-Solvent, No-Mess Coating Process, H. T. Azzam, March, p. 18
Planning an Efficient Injection-Molding Operation, W. N. Neil and C. J. Waechter, March p. 27
Theory Vs Practice in Commercial Extrusion, G. A. Kruder and J. T. Kim, March, p. 49
How to Buy Machinery, R. S. Hallas, June, p. 25
Reclaiming Fiber-Supported PVC Scrap, C. D. Belcher, June, p. 45
Expanded Cores: Structural Plastics the Easy Way, W. H. Smarook, August, p. 28
Making It Big with Plastic Paper, W. H. Hoge, August, p. 51
Vinyl Plastics II—Fundamentals, Processing and Techniques, Miami Valley Section, August, p. 86
Gravure Printing on Vinyl Film, T. W. Lembo, November, p. 18
Injection-Mold Directly from PVC Powder Blends, E. C. Szamborski, November, p. 22
A New Look At Extrusion, W. A. Mack, November, p. 31
Heat-Sealing Polyethylene Film, G. Landvatter, November, p. 42
PVC Primer, A. A. Schoengood, December, p. 25
Is the Foam Market Up In Smoke? A. W. Smith, December, p. 51

97. Production

Injection Molding Production: A Workshop, Newark Section, January, p. 52

98. Pyrolysis

Polyethylene Exonerated in Trial by Fire, SPE Journal Staff, March, p. 75
The Future of Plastics Disposal, B. Baum and C. H. Parker, May, p. 41
Now: Remove Plastic Deposits from Extruder Parts the Modern Way, D. Biklen, July, p. 25

R

99. Recycling

The Future of Plastics Disposal, B. Baum and C. H. Parker, May, p. 41
Reclaiming Fiber-Supported PVC Scrap, C. D. Belcher, June, p. 45

100. Regional Technical Conference

Injection Molding Production: A Workshop, Newark Section, January, p. 52
Flexible Vinyls and Human Safety: An Objective Analysis, Palisades Section, January, p. 53
Polymer Engineering, North Sea Delta Section, February, p. 63
Cost Saving Innovations in Insulation and Encapsulation, Philadelphia Section, July, p. 71
The Coloring of Plastics VII, Delaware Valley Section, August, p. 84
Vinyl Plastics II—Fundamentals, Processing and Techniques, Miami Valley Section, August, p. 86
Predicting Plastics Performance: A Forum, Philadelphia Section, August, p. 87
Photopolymers: Principles, Processes, and Materials, Mid-Hudson Section, August, p. 88

101. Reinforced Plastics

RP Shipments Top 1.2 MM Pounds, SPE Journal Staff, April, p. 72
Now: Polyolefins for Reinforced and Laminated Composites, R. A. Steinkamp, K. W. Bartz, and R. A. Van Brederode, June, p. 34
All-Plastic Missile Fuselages on the Horizon? L. B. Keller, E. Orlowski, E. J.

Morrisey and G. Holderby, December, p. 42

102. Rheological Properties

Flow Properties of PVC Melts, R. Khanna, July, p. 48

103. Rubber

Toughening Polystyrene with Silicone Rubber, J. C. Saam, S. E. Lindsey, A. W. Duncan and J. R. Falender, April, p. 58

S

104. Safety

Flexible Vinyls and Human Safety: An Objective Analysis, Palisades Section, January, p. 53
The Plastics Processor and OSHA, B. A. Olmstead, April, p. 71
Powder Coating '73—Conference and Exposition in Cincinnati, SPE Journal Staff, May, p. 23
Under the OSHA Gun: Two Views on Ways for Extrusion Plants to Implement Their Health and Safety Programs 1. A Consulting Engineer's Recommendations, J. P. Dyer, May, p. 26
Under the OSHA Gun: Two Views on Ways for Extrusion Plants to Implement Their Health and Safety Programs 2. A Case History, J. M. Collister, May, p. 30
One Company's Approach to Safety, R. P. Webber, May, p. 33
Now: Remove Plastic Deposits from Extruder Parts the Modern Way, D. Biklen, July, p. 25

105. Shear

Coextruding Multilayer Blown Film—Part 2, W. J. Schrenk and T. Alfrey, Jr., July, p. 43
Flow Properties of PVC Melts, Raj Khanna, July, p. 48

106. Sheet

Some Clues to Thermoforming Transparent Sheet, J. G. Quintiere, J. L. Throne and R. C. Progelhof, January, p. 35
Gravure Printing on Vinyl Film, T. W. Lembo, November, p. 18

107. Silver Reduction

Three Ways to Plate Plastics, C. D. Storms, November, p. 35

108. Society

31st Annual Technical Conference—Advance Program, March, p. 33
Digest of Plastics Standards, March, p. 55
New Officers for 1973, April, p. 24
Annual Technical Conference Programs and Displays, April, p. 30
International Award, April, p. 32
Annual Report, May, p. 49
ANTEC Highlights, July, p. 6
1973 People Directory, August, p. 71
NPE 73—Show guide and directory, October, p. 25

109. Stability

Acrylic Monomers in PVC Plastisols, G. F. Cowperthwaite, February, p. 56

110. Stabilizers

Guide to UV Stabilizers, C. Savides, February, p. 38
Synergistic Stabilization of PVC, R. D. Deanin, R. M. Foss, A. A. Balamotis, J. V. Garelli, and C. N. Georgacopoulas, February, p. 45

111. Standards

Digest of Plastics Standards, March, p. 55
The Plastics Processor and OSHA, B. A. Olmstead, April, p. 71

112. Structure

Polypropylene—Build in Toughness When Processing, D. E. Scherpereel, December, p. 47

113. Stress-Strain

Pinpointing the Hydrostatic Design Stress of HDPE Pipe, A. D. Whyman and E. Szpak, April, p. 74
Effects of Nickel on Mechanical Properties of PVC, R. P. Kusy and D. T. Turner, July, p. 56
All-Plastic Missile Fuselages on the Horizon? L. B. Keller, E. Orlowski, E. J. Morrisey and G. Holderby, December, p. 42

114. Synergism

Synergistic Stabilization of PVC, R. D. Deanin, R. M. Foss, A. A. Balamotis, J. V. Garelli, and C. N. Georgacopoulas, February, p. 45

115. Synthetic Paper

Plastic Grocery Sacks Are Here At Last, SPE Journal Staff, July, p. 21
Making It Big with Plastic Paper, W. H. Hoge, August, p. 51

T

116. Temperature Dependence

Some Clues to Thermoforming Transparent Sheet, J. G. Quintiere, J. L. Throne and R. C. Progelhof, January, p. 35
Curing Kinetics of Diallyl Phthalate Molding Compounds, P. E. Willard, July, p. 38
Flow Properties of PVC Melts, R. Khanna, July, p. 48
Getting a Bead on Welding of Plastic Pipe and Fittings, W. Neubert and W. A. Mack, August, p. 40
Extruding Rigid PVC Dryblends, T. G. Prejean, September, p. 20
PVC Primer, A. A. Schoengood, December, p. 25
Polypropylene—Build in Toughness When Processing, D. E. Scherpereel, December, p. 47
Is the Foam Market Up In Smoke? A. W. Smith, December, p. 51

117. Tensile Strength

Fabricating Polyterephthalate, B. W. Skelton, January, p. 18
Bonding Laminates of Polyethylene and Lead with Carboxylated Polyethylene Film, P. E. Esemplare, H. L. Blostein and D. C. Herrschaft, April, p. 79
Flow Properties of PVC Melts, R. Khanna, July, p. 48
Effects of Nickel on Mechanical Properties of PVC, R. P. Kusy and D. T. Turner, July, p. 56

118. Thermal Stability

Injection-Mold Directly from PVC Powder Blends, E. C. Szamborski, November, p. 22

119. Thermoforming

Some Clues to Thermoforming Transparent Sheet, J. G. Quintiere, J. L. Throne and R. C. Progelhof, January, p. 35

120. Thermoplastics

Injection Molding for Quality, P. Hubbauer, August, p. 37

121. Thermosets

Why Not Automatic Deflashing of Thermosets, R. F. Zecher, July, p. 28
Curing Kinetics of Diallyl Phthalate Molding Compounds, P. E. Willard, July, p. 38
In Communications Equipment the Message is Thermosets, P. G. Kelleher and D. J. Boyle, November, p. 38

U

122. Urethanes

Is the Foam Market Up In Smoke? A. W. Smith, December, p. 51

123. U.V. Absorbers

Guide to UV Stabilizers, C. Savides, February, p. 38

124. U.V. Degradation

Guide to UV Stabilizers, C. Savides, February, p. 38
PVC Primer, A. A. Schoengood, December, p. 25

V

125. Vacuum Metalizing

Three Ways to Plate Plastics, C. D. Storms, November, p. 35

126. Vinyls

Flexible Vinyls and Human Safety: An Objective Analysis, Palisades Section, January, p. 53
Guide to UV Stabilizers, C. Savides, February, p. 38
Expanded Cores: Structural Plastics the Easy Way, W. H. Smarook, August, p. 28
Vinyl Plastics II—Fundamentals, Processing and Techniques, Miami Valley Section, August, p. 86
Living with FDA Regulation of Plasticizers for Vinyls, A. J. Rutkowski and R. A. Scala, October, p. 52
Gravure Printing on Vinyl Film, T. W. Lembo, November, p. 18
PVC Primer, A. A. Schoengood, December, p. 25

127. Viscosity

Acrylic Monomers in PVC Plastisols, G. F. Cowperthwaite, February, p. 56

W

128. Waste Disposal

Polyethylene Exonerated in Trial by Fire, SPE Journal Staff, March, p. 75
The Future of Plastics Disposal, B. Baum and C. H. Parker, May, p. 41
Environmental Plastics Legislation in the U.S.: An Overview, A. J. Klee, May, p. 46

129. Weld-line

Weld-line Fracture in Molded Parts, E. M. Hagerman, October, p. 67

Authors' index

Numbers refer to category headings in Subject and title index.

i.e., 46, see "Flame Retardance."

A

Alfrey, T. Jr. 39, 45, 85, 88, 105
Alzapiedi, J. A. 33, 34, 80
Azzam, H. T. 35, 92, 96

B

Balamotis, A. A. 53, 90, 110, 114
Bartz, K. W. 4, 17, 44, 54, 59, 64, 68, 86, 101
Baum, B. 31, 98, 99, 128
Belcher, C. D. 32, 43, 77, 90, 96, 99
Berman, P. A. 8, 32, 50, 88
Biklen, D. 8, 38, 98, 104
Blostein, H. L. 3, 12, 45, 53, 59, 84, 117
Boyle, D. J. 22, 30, 47, 57, 121
Broadhurst, G. W. 3, 49, 80, 90

C

Collister, J. M. 32, 39, 104
Cook, D. J. 8, 32, 55
Cowperthwaite, G. F. 2, 77, 81, 90, 109, 127

D

Deanin, R. D. 53, 90, 110, 114
Duncan, A. W. 3, 54, 64, 69, 88, 103
Dyer, J. P. 32, 39, 104

E

Elbling, I. N. 35, 80, 92
Esemplare, P. E. 3, 12, 45, 53, 59, 84, 117

F

Falender, J. R. 3, 54, 64, 69, 88, 103
Foss, R. M. 53, 90, 110, 114

G

Garelli, J. V. 53, 90, 110, 114
Georgacopoulas, C. N. 53, 90, 110, 114

H

Hagerman, E. M. 1, 55, 64, 129
Hallas, R. S. 32, 38, 55, 60, 96
Herrschaft, D. C. 3, 12, 45, 53, 59, 84, 117
Himmler, D. W. 33, 34, 80
Hoge, W. H. 32, 61, 86, 96, 115
Hoke, C. E. 3, 41, 46, 47, 90
Holderby, G. 17, 32, 40, 62, 68, 101, 113
Holland, D. L. 14, 94
Hubbauer, P. 1, 27, 55, 93, 120
Hunkar, D. B. 11, 13, 19

I

Imberman, A. A. 61

J

Johnson, J. E. 8, 32, 55

K

Kelleher, P. G. 22, 30, 47, 57, 121
Keller, L. B. 17, 32, 40, 62, 68, 101, 113
Khanna, R. 48, 65, 77, 79, 90, 102, 105, 116, 117
Kim, J. T. 8, 38, 39, 96
Klee, A. J. 31, 128
Klein, I. 8, 27, 45
Klein, R. 8, 27, 45
Kruder, G. A. 8, 38, 39, 96
Kusy, R. P. 23, 64, 68, 90, 113, 117

L

Landvatter, G. 45, 73, 77, 84, 96
Lembo, T. W. 45, 95, 96, 106, 126
Lindsey, S. E. 3, 54, 64, 69, 88, 103

M

Macalusa, C. J. 3, 39, 70, 84
Mack, W. A. 27, 39, 40, 71, 78, 96, 116
Morrisey, E. J. 17, 32, 40, 62, 68, 101, 113

N

Neil, W. N. 27, 32, 55, 96
Neubert, W. 40, 71, 78, 116

O

Olmstead, B. A. 104, 111
Orlowski, E. 17, 32, 40, 62, 68, 101, 113

P

Parker, C. H. 31, 98, 99, 128
Prejean, T. G. 10, 39, 51, 90, 116
Progelhof, R. C. 63, 106, 116, 119
Protzman, T. F. 3, 14, 15, 75

Q

Quintiere, J. G. 63, 106, 116, 119

R

Rector, C. 8
Rogers, J. L. 3, 7, 21, 80, 86, 88, 90
Rutkowski, A. J. 51, 73, 79, 126

S

Saam, J. C. 3, 54, 64, 69, 88, 103
Saeger, V. W. 9, 31, 79
Saunders, H. E. 35, 80, 92
Savides, C. 84, 88, 110, 123, 124, 126
Scala, R. A. 51, 73, 79, 126
Scherpereel, D. E. 55, 71, 87, 112, 116
Schoengood, A. A. 3, 18, 26, 32, 38, 44 53, 70, 77, 79, 90, 96, 116, 124, 126
Schrenk, W. J. 39, 45, 85, 88, 105
Seymour, R. B. 3, 50, 62, 78
Shah, P. L. 3, 39, 66, 67, 79, 90
Skelton, B. W. 40, 89, 117
Smarook, W. H. 20, 70, 72, 77, 83, 87, 96, 126
Smith, A. W. 3, 46, 50, 62, 96, 116, 122
Steinkamp, R. A. 4, 17, 44, 54, 59, 64, 68 86, 101
Storms, C. D. 34, 80, 82, 107, 125
Szamborski, E. C. 32, 51, 55, 77, 90, 96, 118
Szpak, E. 24, 42, 74, 78, 84, 113

T

Throne, J. L. 63, 106, 116, 119
Tucker, E. S. III 9, 31, 79
Turner, D. T. 23, 64, 68, 90, 113, 117

V

Van Brederode, R. A. 4, 17, 44, 54, 59, 64, 68, 86, 101

W

Waechter, C. J. 27, 32, 55, 96
Webber, R. P. 104
Whyman, A. D. 24, 42, 74, 78, 84, 113
Wieber, A. 3, 49, 80, 90
Willard, P. E. 28, 29, 58, 70, 116, 121

Z

Zecher, R. F. 8, 25, 70, 121